CBS NEWS - APOLLO 15-1ST MOONWALK (7-30-1971)

https://www.youtube.com/watch?v=W5MONoC3qYo (https://www.youtube.com/watch?v=W5MONoC3qYo)

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From July 30th, 1971, CBS News with a bit of NBC News at the end, Coverage of the first moonwalk of Apollo 15.

Apollo 15 crew:

Commander: David R. Scott

Command Module Pilot : Alfred M. Worden

Lunar Module Pilot : James B. Irwin

00:00:00 (https://www.youtube.com/watch?v=W5MONoC3qYo)

[Music] this is a cbs news special report a ride on the moon the flight of apollo 15. can you make out what we're seeing there wally that looks like the ladder that that he'll come down i think we're seeing the insulation of the orange insulation gold insulation across the equipment bay on one of the legs that yeah on which that ladder is attached i think isn't it that's the campus he's been requesting intermediate cooling it looks like that long step down from that last ladder run i think we're sitting here learning what dave's immortal quote will be today

00:02:03 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=123s)

yeah okay dave scott's a very careful test pilot and astronaut uh clearly he took his time in the landing and he's preceding them much more slowly in this maneuver than that when you're in the strange airport you sure want to take a good look at it before you make that final animal shut down against the airport anymore either can we ladder there in just a moment then at the top of the picture in the left-hand side there he is oh it's great resume hey look at that let him get the cold it's a perv picture what a picture the goal to the faceplate shows clearly that's as good as photography dave an extraordinary television picture here hey uh you're the read back there he's been receiving wonders of broadcasting unknown and hadley i try to realize there's a fundamental truth to our nature man must explore

00:04:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=241s)

explore and this is greatest well i see why we're in it too we've got uh that's very interesting there's so many so much uh hummicky ground around here we're on a slope so probably about 10 degrees and uh the left rear foot pad is probably about two feet lower than the right rear foot pad and the uh that front's a little low too but the limb looks like it's in good shape the rover's in good shape i'm a program manager i guess i got his engine though it's a little uh rise right under the center of the limb the rear legs and the trailer and the rim of the crater is right underneath the engine bill he's inferring that it's not usable again of course it isn't unless you go back and refuel it you know tom said again no roger dave jimmy got the message okay sorry about that jim but uh yeah you can transfer the etp i think you'll find the stability is pretty good okay

00:06:02 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=362s)

in this picture there's no doubt he is a command pilot for the commander with the red stripe on this suit and that's the way you can keep them separate of course okay atv is transfer bag here they uh run this lanyard out there okay david moontown running down the clothesline there's a good view of that though you know that didn't show before too well you can see now how it functions another interesting site houston i can uh look straight up and see our good earth right there roger this is unbelievable detail isn't this marvelous and did something else come out with the etp okay it's [Applause]

00:08:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=480s)

[Applause] sitting up there in the door and ready to come down and move service there he comes what must be the last that looks and couldn't be real there that i think he's moving the camera that's what i was gonna say he's just gone back to the uh he is scheduled to do that although wait a minute no the uh put the lunar going in the horizon doesn't mean you get all that momentum going there hatch well you see that as the lunar horizon there or what are we looking at wally what he's doing right now is adjusting the mesa equipment on which the camera is mounted and you can see the horizon moving up and down the lower left-hand corner as the camera is being moved very good up on here hey let me come over here oh it's an optical illusion the horizon is moving in the equipment now dave's going back up the ladder to see what notice dave seems to be adapting to the one-sixth gravity very well you know you just back up

00:10:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=600s)

oh and it's dirty now after all the times you practice backing out of that door why is it so difficult when you get into a lunar environment well i think perhaps the fact that spacecraft why don't you save the contingency sample is just a random collection of rocks to be sure they've got something in case an emergency came up it's the fact last ball was larger for dave to see from alignment has to be unique certainly uh spherical or glass has been seen before and collected before but only in very small very small spheres as they gather the geologists down there were very anxious they got that one right quick before anything happened to it yes being as close to the lime as it is and the normal movements they might take some dust over it or disturb it so i think it's a good idea to document it right away i even see some of the cover coming

00:12:05 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=725s)

get your uv visor down for the next time around in addition to the velcro and the laser blankets they have all the tape really makes it tough you need tape i guess we ought to learn how to do it all with tape on here the first time with some kind of adhesive tape and that was that like ul but probably spelling it out well i have to comment here while he applies the fact the training equipment is used so much that it sometimes looks easier than the actual space the out or back inside well he hangs it on the bottom of the ladder for the moment walter and then picks it up on his next time they're around the front foot pads they're like about six inches deep soft material it's also like sun valley dan powder hey don't move back i got the tripod over here okay that makes for easy trash digging always thank you

00:14:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=840s)

his comment about the uh about the depth of the bus is not surprising as all of us have found the density of the dust varies widely from one location to another generally the more fluffy dust is close to the craters and it sounds like he's landed really he's sun so you better think about that scott takes the camera from the uh equipment bay and then sets it up roger dave that sounds same cameras then good be moved on to the lunar rover and go right with them when you're around there look at that uh bright joe i'm going to swing the camera around towards the ground and now it's pointing back at the lamb with down i want you to take a look as i move it up fully make sure that we're okay on what you see okay

00:16:07 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=967s)

in the shade if that's possible looking back towards the lamp yeah that's that's possible we'll do that the depth of field in this camera is almost unbelievable it's seems to be in focus at almost any range this is a new camera i haven't seen this one before the rca came in look at those mountains in the background right in the crater that's pretty similar you know okay joe xc is going on the 16 millimeter mag charlie it looks good standby dave standby okay they're running just about on their timeline that is considered they started a few minutes early they should be bringing the lunar rover out of its garage there just to the right of the steps in about five to ten minutes roger dave very slightly more to the

[00:18:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1081s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=1081s)

roger dave very slightly more to the right so we can watch the rover come down rover's in the white square you see here right in the center of the picture it's okay dave beautiful okay okay jim let's take a look at our rover friend here watch that tv cable man that's really uh uh let me see if i can get it look okay getting ready to deploy the lunar rover one walking head loose roger and uh your question walter it's on the platform now what's up

[00:20:13 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1213s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=1213s)

if anybody can figure out a way of simulating that dust spring they may argue that this is these are certainly far the clearest pictures you've ever seen from the moon these are beautiful lunar rover this four wheeled electric powered vehicles hold it up inside there it springs open like a in inner door bed when they open up must realize that this vehicle has never been tested in the moon environment of course and thoroughly tested on earth but that's in the full gravity of earth this is one-sixth gravity no air no atmosphere now they're just about ready go ahead okay you're coming it's related i think we'll be okay just release the latch and now dave scott will pull on the lanyard we'll spring it out there let's hope

[00:22:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1320s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=1320s)

everyone takes pictures of the people's hopes just slipping on this weekend back in colorado people have their campers out and they're getting our little trail bikes and we would see the same scene on the moon oh yeah don't knock the tv over get in trouble move it or not i thought you didn't move it looks okay i think tv still looks okay joe tv's fine yeah you're on a tv should be good for the rover oh boy okay we're coming up here 45 up out there okay here let me help you take it here

[00:24:17 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1457s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=1457s)

they tend to slide around you can surely see why many simulations have to be conducted to practice an intricate maneuver like this [Applause] okay now coming down okay okay

[00:26:06 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1566s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=1566s)

i got it get off okay let's come down with the left tape with that lanyard you'd see lowering it down that final few inches it looks like it's close to me looks like we have all four wheels on the moon should have named this lunar rover

[00:28:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1680s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=1680s)

wally a little bit like a toy you buy for christmas and on christmas eve have to spend the whole night setting it up they've they've got to put some pieces on this thing yet over here shows the true problem of parents assembling toys for the kids pushing it there you go okay now let's let's line this up a little straighter let's pull the rear end back towards me okay that's interesting you see them lift the vehicle and move it around just a little bit but it's about 450 pounds on earth right there of course that puts it down right around the 80 pound area but it's inertia [Applause] that's the rate of motion of the initial effect yeah around okay okay from your way right there and maybe take it forward a little bit huh garage the whole uh saddle up there's

00:30:02 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1802s)

garage the whole uh saddle up there's still on both hands around sure let me get in there i've lifted up maybe here portable life support system okay quite certain what that problem is but we'll uh get scotland out of the ground to tell us for a second al shepard at houston do you have any idea what the problem is they're talking about i remember we're not hearing you very well down here uh they apparently are having some problem with the chassis locking mechanism from what i can gather

00:32:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=1920s)

mechanism from what i can gather one that locks the thing uh full open uh pull the rover as far out as you can away from the limb and then pull on the front end if you could yeah we copied joe here joe allen the uh capsule communicator at the man space center in houston they have a problem like this as you were saying wally sure last night they mission control center there in houston are all of these uh sort of test bays where they crash off and get a quick answer the uh support team is unbelievable as of course is what al was mentioning when he uh and they're called on immediately and the answers are given okay i'm of ready is why we talk about that big team we are aware of the fact that there are so many people working at one time yep about as far back as yeah you want to hold it there i'll get in front of it okay try to lift it up okay i'll hold it it's interesting to remind people that suit is pretty stiff and it's very difficult to move around i suspect how we're probably better describing it a lot of people lose sight of that al how uh you're working inside of an electrical barrel at this time and still doing a delicate test okay i'll cut my grip here they do have a little uh more mobility yeah but now i have this is a slightly

00:34:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2041s)

yeah but now i have this is a slightly new configuration what they're really doing is walking around up there in his little spaceship that's the ball behind you i've been watching that all morning okay

00:36:24 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2184s)

uh very much like a beach to start it up but we don't use keys in here they had a typical american problem a card a little too big for the garage that's arthur clark for a certain loyalty to things british the only problem with the theft up there i suppose i think their hubcaps will be there tomorrow for now we have something to talk about that's for sure when you're ready to drive dave and i'll come out and take scott would have been test driving here go ahead and uh lunar vehicle by now in fact about 10 minutes ago he would have been doing that doesn't look like they're quite ready for that test drive yet he just drives

00:38:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2281s)

for that test drive yet he just drives it a few feet and backs it up stops and sees the brakes work and the engines work on this little engines on those little wheels the motors just quarter horsepower hey looks like the uh brake's fun so see if i can't help it i got some sleep okay dave and buckle up for safety here good point oh yeah yeah if you felt fun let's see if it'll work a lot higher we're coming close don't forget all the switches are off by the way okay switches are all closed okay you're ready to copy some numbers out

00:40:04 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2404s)

okay amp hours one zero five and one zero five uh [Music] uh enable on that readout roger dave i know you've rechecked your circuit breakers there well that's correct the circumferences are all in maybe just let me know before you drive yeah he's concerned about the fact the low voltage reading on the number two battery it would indicate the battery for you to drive away and monitor the amps on battery 2 please

00:42:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2520s)

forward drive just be advice okay any good western has the same that's unreal that's going to take a lot of trouble to convince people that's really on the moon it looks so good and dave while you're rolling there requesting forward steering to buzz charlie okay carrying forward to bust charlie you don't know forward steering joe roger jacob circuit breaker please okay

00:44:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2640s)

it might be noted that the lunar rover is one of the few pieces of equipment up there that doesn't have telemetry of its own back to earth they can't know exactly what's happening in that vehicle they have to get it all by word of mouth from scott the telemetry uh uh it's also an item that causes a lot of extra weight and does lower the reliability on a system like the rover okay uh hey they can handle up there okay coming off 15 volt dc okay you know if i look back behind us it almost looks like we landed in a another uh oh 10 liters and we'd have been a surveyor creator

00:46:38 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2798s)

and dave and jimmy are both off the tv camera now or standing by for a description of your progress we'll be back on occasionally as we get to the mesa back with you now don't worry about it dave okay fine write your name all of those things come in here it looks like generally pointing the direction of these that might be mount hadley right there on the left edge of the screen which of course is some 15 000 feet

00:48:04 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=2884s)

how far away from them now shepard can you tell which of course is some fifteen thousand feet how far away from them now shepard can you tell that's the problem walter you know it looks a lot closer than it is i'm sure yeah that that should be uh that should be uh almost uh eight miles away shouldn't it they've got to put the uh the communications unit uh they carry their own communications with them communication will not be going through the lunar module as it is now they put the television control head-on that's so that the ground can control the television camera tilt it pan it uh move it around then they've got to put the antenna on both the high gain the low gain antenna looks a lot like that umbrella we're all tearing up here in new york yesterday incidentally it rained in new york again yesterday and now it's rained in new york on every day

00:50:10 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3010s)

no i don't now shepard is that a warning that they're running low on some of their consumables well that's what the uh what the tone indicates walter but it sounded like it was a transient of some kind to me they ended up saying no flag when i suppose that's the indication of it they don't have a real concern right that's correct the flag of course would be on that the unit right in front of their eyes on their chests no problem i wonder if we're hearing that tone do you hear that chirping very tightly give all our numbers on you look good down here how is that chirping sound the tone they're referring to that sounds like the tongue of course it could be something in the bell system

00:52:02 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3122s)

also the audio on this mission is so fantastic we hear almost anything that goes on as a matter of fact we're hearing them a lot of barely we're hearing you in new york very good so today it goes on a matter of fact we're hearing nebular barely we're hearing you in new york very good houston requesting an emu now number five procedure when you get to a convenient break point over the emu is their uh life support system in the place [Applause] that's part of the part of the total system is the total system they're in the back of the lunar rover they're putting the tools i better take a break and find out what's causing the tone yeah i think you're better what you just go through number five and i'm going to close your flap here

00:54:06 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3246s)

what's happening here walter is apparently we are hearing a valid tone and uh houston i think that was overwritten a little bit by the voice what did you say it was again well apparently we are hearing the uh tone signal coming through to fail is the tone a warning signal yes the tone is a warning to look at the flags because the flags are down below the normal line of vision uh jim has looked at the flags and sees no anomaly so i think they're going through a procedure now to see if it's a valid tone

00:56:05 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3365s)

apparently he has picked up an indication that the flow is dropped for some reason this could be uh trouble with the fan it could be some kind of a blockage in the sink somewhere creating a back pressure obviously unless uh rather quickly corrected this would uh this would necessitate getting back into the limb and repressurizing them wouldn't it no it's not a dangerous situation walter because the crew would comment on the inside but it is of course one that would prevent the total eba from being conducted by jim at least didn't they uh very early in this eva uh mention this water pressure is high and cone problem all your numbers look cleaner i thought i just heard houston say that uh not in the actual uh vending system great great that should clear that problem i haven't seen anything go as far as that golf ball yet though i don't know what kind of record they're talking about down here we hear it as well i have a feeling how you would have preferred

00:58:09 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3489s)

feeling how you would have preferred with a golf cart like that alia could have played a couple extra holes and we really would have known how far that ball went i think it's the same the young fellas get to ride and so fellows had to walk very good of course we joke about this cart but has been pointed out it's going to provide a tremendous amount of capability for gathering different samples over wide locations and geologically speaking this is a tremendous area with so many basic types of geological formations immediately available to them you know we can hear them breathing in their suits in almond wall-e and they're using consumables at a fairly high rate the coolant water because their temperatures are up as they work in the heat of the of the direct sunlight on the moon uh they breathe more oxygen and you can see the advantages of the lunar rover as they ride they're not going to waste all of that energy that it takes uh can stay longer outside there's that umbrella-like antenna they're putting now on the lunar rover that's correct that's what will send us the pictures of the television once they get it mounted on the rover

01:00:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3600s)

the rover talking about the the lunar front for the moment you can see mounted on the rover are in fact uh in amari area it's extremely smooth and those mountains in the background describe the front between the mari flow and the apennines themselves it's a classic example of what we're talking about as a geological contact point it's interesting to note that they keep talking about a ski resort and the powder covers all the rough edges we anticipated seeing some rather jagged areas uh we have here it's uh dust almost all over the edges of the hills and i'm sure that we're going to get a call from our air force expert merely looked at me what is that john are you surprised to see that dusty uh front face there no i don't believe it it's been around a long time yeah roger you hold more than 3.9 billion years isn't that right [Music] and watch this performance on the moon every once in a while they have to change videotape reels because the conversion the color conversion is accomplished with videotape and that new reels have to be replaced and maybe going through that process now during which time we would be getting only a black and white picture if we plugged into it i don't know that's what they're doing at the moment i'll get the is as soon as we get the pv on roger dave have at it

01:02:06 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3726s)

on roger dave have at it they're running about 20 minutes behind on their timeline uh it was said it's been said by all those who were involved in this program for apollo 15 that they had probably more work to do than they could accomplish and nobody's going to be worried uh there's our simulation and it looks pretty much like it does on the moon doesn't it in fact it's a confusing picture these days just a little bit clearer there's a real picture it's not as good as the real one you can't say he's that the camera now apparently from his tripod we'll be moving the camera from the tripod out and uh putting it on to the lunar rover and once they've got it on there then they go back goes back into the uh lamb and they test the communications to be sure that they're working before gem in the limb throws the switch and throws the communication directly from earth to the lunar rover rather than going through the lunar module cbs news caller coverage of man's first drive on the moon will continue in a moment until now you had to ride in one of these to taste new grape flavored tang nasa chose it for the moon flights just like orange flavored tang but today you don't have to go that far new grape flavored tang is here with more vitamin c than orange juice just like orange flavored tang new grape

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just like orange flavored tang new grape flavored tang instant breakfast drink for space men and earth families the lunar rover isn't very big or very fast it hasn't got leather upholstery or 300 horses under the hood but it's the most amazing land vehicle ever invented because the land it drives on is the moon and when it goes there tangos too orange flavor tang the instant breakfast drink with more vitamin c than orange juice good nutritious tang for space men and earth families cbs news color coverage of the first ride on the moon will continue after this pause for station identification this is cbs the television nine a ride on the moon the flight of apollo 15. this morning astronauts scott and irwin take a drive on the moon sponsored by orange flavored and new grape flavored tang for spacemen and earth families and by western electric the people who make communications equipment for the bell system now again from the cbs news space headquarters in new york correspondent walter cronkite everything's going well on the moon this morning the lunar module uh is sitting on the moon at about a nine degree tilt and that hasn't given them any trouble they've unloaded the lunar roverine vehicle it seems to be working all right a little trouble with the steering system but apparently they're not too concerned about it they had a little worry about jim irwin's suit and the consumables in it but

[01:06:02 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=3962s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=3962s)

suit and the consumables in it but that doesn't seem to be worrying them either now uh they decided that apparently it was just a quality indicator uh light and flag and not actually any trouble with the consumables themselves now as they prepare the lunar rover for the first test that's when uh dave scott takes it and drives it a little bit away from the lunar module and they begin to line up its navigation system that's the system that permits them to get back to the lunar module when they cannot see it by direct line of sight when they're behind the uh the hills or and down in the craters that they'll be driving through this will tell them exactly how to get home and how many how much of those precious consumables air and oxygen the oxygen and the water for the coolant that they have left the television is off at the moment as they move it from a tripod the camera from a tripod to the lunar roving vehicle then we'll get the television for a little while as they make some more tests we'll lose it again as they move out for the navigational testing got another picture of them perhaps before they then began the actual lunar ride the uh that ride is scheduled this morning for about almost four hours if they go ahead and take the whole trip this one like those contingency samples they grab from the lunar surface right after they get out of the lunar module falcon is really to be sure that they sample all of the critical areas in case they had for some emergency or other to take off from the moon before they could complete the next two walks scheduled for tomorrow and monday they'll go to the very edge of that 1200 foot deep mile wide gorge the hadley rail and

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mile wide gorge the hadley rail and they'll go down to the foot of the apennine mountains so that they can test both the rail and the mountainous area and then back to the lunar module this ride this today on saturday is cut short a little bit because part of their time outside of the lunar module must be spent setting up the scientific experiments around the lunar module the uh the nuclear power station that will power all of the experiments for more than uh well indefinitely certainly more than a year the seismometer that will be added to those placed on the moon by apollos 12 and 14 and will give for the first time triangulation of the moon quakes and the artificial moonquakes created by man by plunging the s4b third stage of the saturn rocket booster onto the moon surface with a force of 11 tons of tnt and then the the ascent stage of the lunar module is also sent plunging back onto the moon's surface by knowing exactly where those impacts take place and now with three seismometers on the moon they're able to get a pretty good fix on the the moon's crust and what really happened so when it is disturbed by such an impact al shepard i've got a small uh apology to make to you a moment ago i did say something about this being the first drive on the moon while they shut wally points out that you had the first drive on the moon with that uh golf club you had along and uh this is the first ride on the move well your apologies accepted walter and let me say you've done your homework extremely well on this business of triangulation one of the things i think is perhaps overlooked so many times about the numbers of flights is that with the number 15 coupled with the equipment of 14 and 12 that we will have

[01:10:02 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=4202s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=4202s)

equipment of 14 and 12 that we will have this triangulation of which you spoke and a much better handle of tying together all of the various scientific pieces of equipment that are being used to transmit the information back to earth so it really locks the total thing together as you pointed out it does uh this this flight uh everybody has been saying if it all if all goes well we'll return uh far more scientific knowledge than all the other moon flights together and this kind of uh acceleration of information coming back uh the scientific information will continue right on through apollo 16 and 17 because we're as we're adding to the baseline of knowledge obviously the whole the whole top of the tree begins to flower that's exactly right of course the rocks come back and they can be studied and dissected and looked at very carefully and examined for several years to come and in the meantime of course the equipment continues to operate for several years so all the scientists that are involved have a chance to look at a tremendous amount of data over a long period of time and wally too uh from the basis on the base of what we've heard this morning so far from up there on the moon 240 000 miles away with that incredible television picture and great communications how do you gather this thing is going uh on the lunar rover i'm not quite clear just how efficient it is going to be i didn't hear an answer back on that second battery and i didn't hear them ever say they had that steering cleared away dave was saying that first test drive around the lunar module that he didn't have any front steering that's correct walter and i think it's too early to really tell what the effect of the total mission will be obviously they're in good shape for the first eva and the rate at which they use

[01:12:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=4320s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=4320s)

whether they can complete the total three evas i think another point al of course is that they're putting together this eight million dollar vehicle up there it hasn't been put together in this environment before there is time to check it out and uh typically that's what's done each problem area is looked over with a careful scrutiny i'm sure they're looking at why the front wheel steering isn't working in contrast at the back it would indicate one power supply is off obviously anybody anybody tries to get tab a into slot a and tab b into slot b with those christmas toys knows what they're going through we're getting uh the video picture back now the camera is now on the rover uh with the voice and telemetry still coming through the lunar module until after he commands it lmp's camera 500 with magneto [Applause] okay jim sounds good okay jam sounds good

[01:14:04 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=4444s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=4444s)

[Applause] remember the camera is being controlled from the ground [Applause] and the rover is stationary if the camera is simply turning around on a stationary road [Applause] number four is on the right side of the tool carrier unstable base uh sure makes a difference

[01:16:10 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=4570s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=4570s)

okay and the sample bags are on the individual baits joe i'm gonna get the lake pick up the rake [Applause] i have to wake a lot of this wouldn't you yeah like maybe a good thing because it doesn't look like right here this uh visor looks pretty much like the same one that al shepard and ed mitchell used and uh what we've done since the first mission we've been able to the gold coating and the protective eyes are the same but uh the side of the element and at the top we put in some additional sun shades so if either dave or jim get too much sun out there they can pull out some little blinders that come down to the side you can see the tab not right now you can't but a few minutes you'll be able to see the tabs on the side of their helmet that they can pull down that'll cut out some level of sunlight and if they're looking up sun they can pull down the center body right and your apple bag holders on your camera jim right now dave uh we're looking at close up then has his visors completely up and i'll put the sun compass the overlay

[01:18:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=4681s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=4681s)

and i'll put the sun compass the overlay map in my [Applause] pan we're moving out real fast now i think well organized fashion [Applause] i guess that sensor on jim's uh pliss is uh starting quit acting up so we haven't heard any beeps from him in quite some [Applause] i'm securing time uh hand tool kit for driving good hey uh jim before you go back get the dust push out yeah and i want to get you this dog go i don't want to take all that dirt into the lamp jim has to go in the limit a minute turn off the uh high gain antenna in there to save limb battery because uh now they're going to use the batteries on the rover to power the tv and there's no need to waste that limb now battery or the five of them well that pan's beautiful there goes jim how are you on your uh timeline dave anytime you want to grab somebody for you okay you push me on [Applause] there's about three colors on that rover white is what generally is the seats the frame and everything else the fenders are sort of that brownish gold it looks copper on earth and looks pretty representative up there and then they've got some uh that sort of orangish yellow reflective insulation material like on the lamb that will be on the car

[01:20:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=4800s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=4800s)

the lamb that will be on the car radio equipment really [Applause] there's three boulders see those three boulders out there sitting sort of a triangular arrangement my harness is still secure earth is fine except for the dirt and dave this might be a good time to button up the corner of jim's cluster [Applause] it's all but i got a little while ago joe all right roger sorry i missed it and uh for your thinking uh we're down about 25 minutes but no problem [Applause] okay i guess we expected that magic workbook a brush is about the size of a smaller disc brain trying to squish it here [Applause] we're looking right at the mesa now where all the equipment's been stored that they've mounted on the roving person to get a lot more in there okay i think i got that a major portion of it yeah you won't steal my antenna yo let me get your foot here [Applause] yeah we're trying to slope there's another game no you noticed dave said a minutes ago a minute ago he kind of expected that what you've got to do so you don't end up wasting time at the end is playing for every possible second saying everything's going to go right but knowing that some things are probably not when they're the first time like they're over okay uh be flexible enough to make it up while i get in yeah look at the brush

[01:22:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=4921s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=4921s)

while i get in yeah look at the brush okay be careful [Applause] and dave houston while you're still in there right there just thinking ahead uh we've got a couple of checks to carry out on the rover before you drive off the other side [Applause] yeah that's good joe all right all right yeah we'll want you to look at the front wheel steering decoupling lanyard for us and then after that physically try to turn the front wheels forward [Applause] okay as you know uh in the event [Applause] as you know the rover is configured so that something good happened to either of the steering you could center it you could decouple the steering from the electric motor that steers it center it up and then use the rear wheels or the front wheels depending on which coil and they're taking a look now at the lanyard and see if somehow it came disconnected accidentally as it was deployed [Applause] okay i think we're in business so we'll want uh 15 volts for primary and forward steering default day when you start off we've stuffed this in the title what dave's doing now is checking his wrist checklist to see what's next

[01:24:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5040s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=5040s)

wrist checklist to see what's next he's got all the necessary data right on there step after step after step and what to do is they won't forget something go easy go easy [Applause] let me come up there one take [Applause] once again it's it's first time going in up there and it's it's a little bit different than when you put okay yeah problem okay come left left your shoulders to the left clean your hips to the right push down [Applause] just throw it down okay get your your right shoulder down right shoulder down did not go forward hello boy there you go okay well we all feel like that one american flag up there we were watching it on tv [Applause] just think we've only got two more of these to go it's a real shame you know many people say why keep going back i want some uh it looks like travano under there there's a okay hooker there now that i remember seeing it in the

01:26:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5160s)

now that i remember seeing it in the 160 trade they keep pointing while we go back it's just like the u.s you can't fit the water the earth you can never hope to find out what's going on on earth that's going to two or three different spots and saying uh that's what it's like also [Applause] this is the uh the stores that jim said there earlier you see the batteries the food box the lithium hydroxide to clean the air in their backpacks [Applause] gonna run it up and then they'll have it in and prior to getting out the next thing hold a minute okay hold on [Applause] the direction we're looking now is the direction they're going to be headed on this first uh excursion kind of down towards uh that area that's just above the uh container that uh state's working with okay elbow craters located down there although we can't [Applause] is really located uh in the in the background there we just can't see it as you know uh they landed in a low spot and then it grads the train although it's undulating gradually builds up the highest point is pretty much right on the left with hadley rails so as they drive along we're not going to be able to see the wheel until they get right next to it

01:28:02 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5282s)

[Applause] first winter drive we're going to walk now this looks difficult this business of moving things in and out of the spacecraft is it it's fairly difficult we've tried every single flight to come up with a better way than this clothesline we've tried carrying it up we've tried handing it up and it turns out for the size packages this is the best we can come up with and although it's clumsy and dave just press on and we'll give you some more work when you're ready to drive off [Applause] we just haven't been able to come up with a better thing for the weight it doesn't weigh much it does the job it doesn't take much time we all have a gut feeling we could do it a better way but we can't figure it out there's st george crater right there see it yeah it looks much closer than it probably is yes i think it is quite a ways down [Applause] and one of the things that impresses me is the fact that dave and jim are working around so rapidly they don't seem to have any balance problems again is the pilot disconnected oh no just connect to the lac let it pull back down it's those periods when when you really know how time moves and never never goes back down [Applause] okay so on their mind all the time is let's go let's let's get this loaded let's get this inside let's get on the rover and get going and they're moving just as fast as they

01:30:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5401s)

and they're moving just as fast as they possibly can up there [Applause] i see what dave met when he said he looked out there and he thought he could see the area where the athenian front which i think that we're [Applause] [Music] we want the 15 volts a primary and forward steering to bus out just sort of give them a check right now bus alpha had to be okay joe first let the uhp is stowing the high gain for a better place to traverse and then they're going to wide band where they can use that little antenna that just generally points to it so we can get their common data but we won't be getting their tv they're ready to go this means they're really ready to start the traverse yes be out of fight for just a little while as they're heading for hadley real after all of this fuss after the launch after the trip through space after the landing on the moon after all of that they're about 25 minutes behind schedule but they're on the way and we're going to take a break now for a message from gulf the monastery of la ravida columbus waited here six years until the friars convinced the queen

01:32:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5520s)

until the friars convinced the queen that his voyage would be good for spain he sailed with sail today golf tankers and columbus looks on as the product from the new la ravida complex first of two refineries planned by rio gulf de petrolios a gulf and spanish partnership formed to make fuels petrochemicals and other products to help the country grow asphalt spain needs it for new and better roads [Music] butane a more efficient fuel than firewood [Music] modern fertilizers another gulf spanish company fertilia is helping farmers grow healthier crops all this depends on crude oil so rio golf is building a tanker fleet in spanish yards to bring it in the flagship naming her was easy la ravida she is a thousand times bigger than the minia the pinta and santa maria put together and every voyage she makes is good for spain golf for whatever work there is to be [Music] done nbc news will continue with its coverage of apollo 15 in a few moments we pause now for station identification

01:34:09 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5649s)

or very fast it hasn't got leather upholstery or 300 horses under the hood but it's the most amazing land vehicle ever invented because the land it drives on is the moon and when it goes there tangos too orange flavored tang the instant breakfast drink with more vitamin c than orange juice good nutritious tang for space men and earth families all right now i'm bid one couple with two children for this four-door datsun 510 sedan is this the perfect datsun for them so you can pick a perfect datsun just see the small car expert your datsun dealer [Music] hey mom have you seen my frog [Music] see the pga national team championships today at 5 p.m on 4 take home carta blanca premium beer from mexico now sold in gem stores in alexandria and tyson's corner rodman's drugs in fairfax and pantry pride at bailey's crossroads dc brought to you by the gulf oil corporation producers of more and better energy from oil now once again john chancellor they have been working on the lunar rover and they believe and then they've told the astronauts on the moon that both batteries are all right in it which is very important that means it can move as quickly as they'd planned but that the forward steering isn't working well so at all so they're going to have to steer it with the two rear wheels which is perfectly all right not perhaps as mobile and as agile as they'd hope but it'll still get

01:36:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5760s)

agile as they'd hope but it'll still get there and in a moment uh david scott the commander and james irwin the uh his partner will start what they call the first eva the extra vehicular activities or evas are the heart of apollo 15's mission on the moon and commander scott talked to us about what will happen on eva one the first eba of course is concerned with some geology and some of the alphabet we hope to go to our primary objective which is the the mountain range to the south of the landing site called the apennine front and gather materials and investigate it geologically in order to accomplish a primary objective on eva number one after we've completed that and of course it's performed on the rover and we get an evaluation of the rover at the same time after we've completed the geological investigation at the front we'll return to the vicinity of the limb and deploy the outset and within the lsap we have a new experiment which is a they call a heat flow and it consists of uh drilling nine feet into the surface and placing some heat probes which is a an interesting thing and i think uh if the tv is functioning properly uh while you'll be able to see it one of the advantages of this tv is not only will the the public be able to watch our activities but the scientists also will be able to see how their experiments are being in place in real time and the tv can zoom right up on a a bubble level or a sun shadow alignment device and really provide some useful information at the conclusion of the alpha deployment while we'll get back into the limb for a rest period and [Music] get ready for eva number two as though it were that easy they've just given him the uh the compass heading i believe of 279

01:38:02 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=5882s)

the compass heading i believe of 279 so they know which way to point the vehicle they would know that anyway from the mountains they can look at and they're getting ready to go i'd like to ask captain bean and some of our people in houston about the navigation system could they conceivably get lost i don't believe they could john uh system as gyroscopes they're able to uh to anytime you're in motion in the lunar roving vehicle there's a couple of readouts on the uh the rover itself that always give you the heading and the distance back also like you pointed out they're able to look out they know their mountain peaks and i've got a chart here that they have on board i think is a real good one they're able to look over it at mount hadley i'll see if i can show it to you that's hadley delta as we call it they call it no there's a mount hadley and a hadley delta they're able to look at mount hadley and get a bearing from it they're able to look at uh what they call herald 305 which is uh on a bearing of 305 and by taking a bearing between these bearing of 305 at the nominal landing site if they're anywhere else it'll have a different bearing then they can kind of correlate between these two on just a regular graph and it comes up and says let's say for example here at 300 degrees to the hill and 40 degrees to mount hadley they can come up with something like walk 230 degrees for 1.9 kilometers now yeah you just use the word walk i think we ought to talk about that as well they uh now remember if they're in the roving vehicle they could do this or even more easily would just be turn around and follow their tracks back home yeah but in case that vehicle were to break down i think we ought to explain to the audience that they have enough oxygen uh in their system so that they could walk back if they had to do you want to talk about that a little

[01:40:00 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=6000s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=6000s)

do you want to talk about that a little bit uh that's a good point we actually got sort of two considerations one what do you do if the rover breaks down and you have to have enough uh consumables uh in your backpacks and your ops so that you could get in the rover so that you could walk home and so they're never going uh too far away so that they won't be able to do that the second consideration is what happens if something goes wrong with your backpack or your suit uh you've got to have enough consumables uh together with this buddy slist as we call it where you can go on your backup oxygen you can put your buddies list between the man that has the problem with the suit and the other man so he gets cooling and then you've got enough time to get in the rover and head home so there's the two considerations there one if something goes wrong with the the rover you can always get back walking we've always got enough to do that and if something goes wrong with your your backpack you've got enough time to use the other man's bliss with yours and drive back home alan there is one point here what happens if the backpack goes and if the rover goes that just can't happen right well no one of the one of the ground rules in uh first of all each of those is redundant in itself and so it would take more than one failure to bring that problem up secondly uh we found out in in laying out the lunar mission if we started saying this redundant system fails completely and then we fail that redundant system completely you get in a situation that you can never get there and back so we built these to be reliable at the same time we built them to be reliable we said even though we built them that way if something goes wrong can we get back with the other system assuming it's good and we can and we've shown uh for example on apollo 13 that even with a a major phaser we're able to get back in the same way with these suits and the rovers that's why we have two steering steering systems on the rover that's why we have two batteries on it that's why we've got two backpacks they've got two emergency oxygen systems that's why they can interconnect and get water so uh we think we're in good shape as far as a failure of that type is concerned

[01:42:01 (https://www.youtube.com/watch?v=W5MONoC3qYo&t=6121s)](https://www.youtube.com/watch?v=W5MONoC3qYo&t=6121s)

failure of that type is concerned everything we've seen so far indicates we're in good shape that the rover is going to work and the minor difficulties or at least the signals they had that some of the backpacks were had a problem apparently there is no problem and so the astronauts are about ready to start on their on their first eva in their first moon drive let's talk a little bit about the real point of this lunar mission and that is science and above all it's going to be geology there's one change in the first routine for the first mooner walk and that is that they will not be setting out the scientific package at the beginning but only at the end about five hours from now that the first thing the first priority is to go to the opening front which is the face of those mountains over which they flew when they landed yesterday and start to take some samples and uh in just a minute we will talk more about that with dr richard johns who is a geologist from stanford university and one of the countries top experts on lunar geology and we'll do that in just a moment right now back to john in new york as you saw the heading for hadley real it took a little longer than they thought to get there but not much longer and they'll be there before long once they start this trek across the moon and we'll be back after this word from golf

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